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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/739,516	12/18/2000	Jody Western Lewis	US000345***	3122

24737   7590   07/15/2003

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EXAMINER
TRUONG, LECHI

ART UNIT	PAPER NUMBER
2126	5

DATE MAILED: 07/15/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 09/739,516	Applicant(s) LEWIS, JODY WESTERN
	Examiner LeChi Truong	Art Unit 2126

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE <u>3</u> MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.
- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on <u>*08 December 2000*</u> .

2a)☐ This action is **FINAL**.   2b)☒ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) <u>*1-7*</u> is/are pending in the application.

    4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) <u>*1-7*</u> is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

    Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

11)☐ The proposed drawing correction filed on _____ is: a)☐ approved b)☐ disapproved by the Examiner.

    If approved, corrected drawings are required in reply to this Office action.

12)☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

13)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

    a)☐ All b)☐ Some * c)☐ None of:

      1.☐ Certified copies of the priority documents have been received.

      2.☐ Certified copies of the priority documents have been received in Application No. _____ .

      3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

    * See the attached detailed Office action for a list of the certified copies not received.

14)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).

    a) ☐ The translation of the foreign language provisional application has been received.

15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)

2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) <u>2</u> .

4) ☐ Interview Summary (PTO-413) Paper No(s). _____ .

5) ☐ Notice of Informal Patent Application (PTO-152)

6) ☐ Other: _____ .

DETAILED ACTION

Claim Rejections - 35 USC § 112

1.   Claim 4 is rejected under 35 U.S.C. 112, first paragraph, as containing subject matter

which was not described in the specification in such a way as to reasonably convey to one skilled

in the relevant art that the inventor(s), at the time the application was filed, had possession of the

claimed invention.

As to claim 4, " the term modifying said indicator part of said first data object to produce

a second data object" was not described in the claim limitation.

Claim Rejections - 35 USC § 103

2.   Claims 1-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Swenson et al

(US. Patent 4,413, 317) in view of Admitted Prior Art (APA).

As to claim 1, Swenson teaches the transfer of data (the transfer of data, col 1, ln 33-45/

col 2, ln 20-45), storing queue identifiers (the host ID table, col 162, ln 1-10/ the command

queue store to access a host identification table, col 2, ln 21-50/ col 188, ln 11-21), a path object

(the connection paths, col 2, ln 4-50/ col 188, ln 9-62/ a path, col 161, ln 1-60), processing a data

object (the status of the storage control unit with respect to execution of a command, col 1, ln 15-

50/ reporting status, col 1, ln 55-68/ the status, col 161, ln 50-64/ the command queue for

execution, col 161, ln 1-50/ col 188, ln 9-67), a first of said processing object(storage unit, col 1,

ln 55-68/ SCU, col 161,l n 1-60/ storage control unit, col 188, ln 9-67), identifying(define the

connection paths , col 2, ln 21-50/ check Host ID to see if has a path back, col 161, ln 1-60), a

second of said processing objects(a host processor, col 1, ln 55-68/ col 188, ln 9-62/ the

specified host, col 161, ln 1-60), an indicator(a status indication, col 188,1 n 45-62).

Swenson does not teach placing said data object in a queue. However, APA teaches

(another queue, page 4, ln 1-15).

It would have been obvious to apply the teaching of APA to Swenson in order to use the

queue to mediate the transfer of a data object among processing objects.

As to claim 2, Swenson teach determining a result (the status is reported over a

connection paths defined by the table, col 2, ln 19-50/ status maybe reported by either of ... to

any host processor to which it is connected, col 188, ln 9-62/ it is common practice to report back

to a processors the status of the storage control unit with respect to execution of a command

issued by the processor, col 1, ln 32-52).

As to claim 3, Swenson teaches result corresponding to said queue (the status is reported

over a connection paths defined by the table, col 2, ln 19-50/ status maybe reported by either of

... to any host processor to which it is connected, col 188, ln 9-62/ it is common practice to

report back to a processors the status of the storage control unit with respect to execution of a

command issued by the processor, col 1, ln 32-52).

Swenson does not teach placing said data object in a queue. However, APA teaches

(another queue, page 4, ln 1-15).

It would have been obvious to apply the teaching of APA to Swenson in order to use the

queue to mediate the transfer of a data object among processing objects.

As to claim 4, Swenson teaches the transfer of data (the transfer of data, col 1, ln 33-45/

col 2, ln 20-45), storing queue identifiers (the host ID table, col 162, ln 1-10/ the command

queue store to access a host identification table, col 2, ln 21-50/ col 188, ln 11-21), a indicator

path (the connection paths, col 2, ln 4-50/ col 188, ln 9-62/ a path, col 161, ln 1-60 (a status

indication, col 188,ln 45-62), processing a data object (the status of the storage control unit with

respect to execution of a command, col 1, ln 15-50/ reporting status, col 1, ln 55-68/ the status,

col 161, ln 50-64/ the command queue for execution, col 161, ln 1-50/ col 188, ln 9-67), a first of

said processing object(storage unit, col 1, ln 55-68/ SCU, col 161,ln 1-60/ storage control unit,

col 188, ln 9-67), identifying(define the connection paths , col 2, ln 21-50/ check Host ID to see

if has a path back, col 161, ln 1-60), a second of said processing objects(a host processor, col 1,

ln 55-68/ col 188, ln 9-62/ the specified host, col 161, ln 1-60), a second data object(status

modifier status, col 135, ln 5-30/ col 2, ln 19-40).

Swenson does not teach a first queue and a second queue. However, APA teaches

(another queue, page 4, ln 1-15).

It would have been obvious to apply the teaching of APA to Swenson in order to use the

queue to mediate the transfer of a data object among processing objects.

As to a method of claim 5, see the rejection of claim 3.

As to claim 6, Swenson teaches the data objects are transferred (the transfer of data, col

1, ln 33-45/ col 2, ln 20-45), a path objects (the connection paths, col 2, ln 4-50/ col 188, ln 9-62/

a path, col 161, ln 1-60), an indicator (a status indication, col 188,ln 45-62), second and third

processing object (a host processor, col 1, ln 55-68/ col 188, ln 9-62/ the specified host, col 161,

ln 1-60), a process (the status of the storage control unit with respect to execution of a command,

col 1, ln 15-50/ reporting status, col 1, ln 55-68/ the status, col 161, ln 50-64/ the command

queue for execution, col 161, ln 1-50/ col 188, ln 9-67), a result (the status is reported over a

connection paths defined by the table, col 2, ln 19-50/ status maybe reported by either of ... to

any host processor to which it is connected, col 188, ln 9-62/ it is common practice to report back

to a processors the status of the storage control unit with respect to execution of a command

issued by the processor, col 1, ln 32-52), a first of said processing object(storage unit, col 1, ln

55-68/ SCU, col 161,l n 1-60/ storage control unit, col 188, ln 9-67), data objects(command, col

2, ln 1-50/ data/ command, col 161, ln 1-60).

Swenson does not teach placing said data object in a queue.. However, APA teaches

(another queue, page 4, ln 1-15).

It would have been obvious to apply the teaching of APA to Swenson in order to use the

queue to mediate the transfer of a data object among processing objects.

As to claim 7, Swenson teaches the generation of an indicator of a result of a subprocess

(generates an external interrupt to report status, col 36, ln 5-8/ generating a host processor

identification value specifying the host processor which issued the command, col 186, ln 30-40/

using the host identification generated for the command, and transmit status to the host processor

over a connection path defined by table entry, col 2, ln 19-62).

3.   *Conclusion*

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to LeChi Truong whose telephone number is (703) 305 5312. The

examiner can normally be reached on 8 - 5.

Fax phone: AFTER_FINAL faxes must be signed and sent to: (703) 746-2738, OFFICAL

faxes must be signed and send to: (703) 746-7239, NON OFFICIAL faxes should not be signed,

please send to: (703) 746-7240

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is 703 305 9000.

LeChi Truong
July 9, 2003

JOHN FOLLANSBEE
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2100